EPSILON
Controls & Automation

Application Note...

Serial Code Reading by OCR Tools

Customer
Pharmaceutical Giant

Customer Requirements
The purpose is to verify that the labels are applied in serial order

Epsilon Solution
P4-OMNI vision sensor with 12mm C-Mount lens and white ring light ,with a powerful PC based application software in VB.NET

Why Epsilon?
Speed – Sensor performs inspections within 16 ms on products traveling at 60/minute

Deployed 120mm from its target, an P4-OMNI with 12mm C-Mount lens inspects for the location and decode the serial number by using OCR tool

Background
Application developed for a Labeller machine to be used at a pharma giant. The labeller applies the serial number label on the blister pack box. But some time the labels are missing in between the series. These industries need a simple, cost-effective, and reliable way to verify series of the label.

Challenge
The Products traveling at speeds of up to 40 to 60/minute with so many Challenges on same speed the position of the labels is not same there will be shifting of 1 or 2 mm. Also OCR is to be done on the fly. The decoded serial numbers are to be sent to the pc over Ethernet and compared with expected code which is incremented by one on every consecutive packet.

Solution
The Epsilon P4 OMNI image sensor provides a simple way to perform serial number reading using the OCR tool Epsilon P4 OMNI image sensor can provide additional reliability for OCR inspection. The decoded Serial Code value is send to interfacing device over Ethernet. The value is compared with Saved value. In event of wrong value electronic outputs are generated from the interfacing device (ADAM 6060). In this case, one of the outputs is used to eject the faulty packet by air purge nozzle. The software also has facility to blank the missing labels in between.

Customer Benefits:
- Improved Productivity
- Easy installation
- Improved Speed

PresencePLUS P4 Omni Features
- P4 OMNI model (640 x 480 pixels) provides accurate analysis at high speeds
- Includes remote TEACH, configurable I/Os, live video and communications standard to all PresencePLUS sensors
- Features compact, self-contained P4 housing

Learn More
Visit www.epsilonfiberoptics.com for more application information

Product Image

Software Image: